

Procedure: <i>Define the Approach (Develop Products)</i>	
Issue Date: January 9, 2001	Procedure ID: P-PE-013
Supersedes: May 5, 2000	Rev/Change 2.1

- 1. Purpose:** To determine and document high-level information about the product and the project, and to define how the project will be performed.
- 2. Applicability:** This procedure is applicable to all government and contractor personnel assigned to ATISD.
- 3. Responsibility:** Engineers
- 4. Support:** Government and Contractor Project Managers, Quality Assurance, Configuration Management, the ATISD Director.
- 5. Invoked By:**
Standard Process
- 6. Inputs:**

Statement of Work	S-PM-010
Project Life Cycle Worksheet	S-PM-150
- 7. Outputs:**

Test Strategy	Glossary
Requirements Specification	S-PE-187
COTS Decisions	Glossary
Top Level Design	S-PE-280
Fielding Strategy	Glossary
- 8. Procedures Invoked:** Identify Risks P-PE-150
- 9. External Procedures Referenced:** N/A
- 10. Procedure Steps:**
 - a) The Engineers analyze the Government's request to determine the requirements for the product. The Engineers may perform reverse engineering if required.
 - b) The Project Manager documents the requirements in a Requirements Specification (S-PE-187) and places it in the Project Records. For larger projects the team may want to create a draft RTM/Compliance matrix at this point.
 - c) The Project Manager, with assistance from the Chief Engineer, updates the Operational Concept for the product.
 - d) The Project Manager updates the Product Vision and Project Goals based on any new knowledge and clarifications identified by the Engineers.
 - e) The Engineers analyze the product's requirements, limitations and restrictions to determine the Architectural Design (S-PE-285) for the product.

- f) The Engineers analyze the product's requirements, limitations and restrictions and determines the Top Level Design (S-PE-280) for the product.
- g) If any COTS products are available, the Project Manager, with assistance from the Engineers, decides to build or buy the functionality and/or reuse existing code. These decisions will be documented (COTS Decisions) in the Project Records.
- h) If the developers are to deploy the product, the Engineers, with assistance from the Project Manager, define a Fielding Strategy. For larger projects, the team should provide more details on the approaches for testing and fielding.
- i) The Engineers, with assistance from the Project Manager, define the Test Strategy and place it in the Project Records.

11. Notes: N/A